

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/575,193
Source: IFWP
Date Processed by STIC: 4/24/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 04/24/2006

PATENT APPLICATION: US/10/575,193

TIME: 16:14:00

Input Set : A:\14875-160US1.txt

Output Set: N:\CRF4\04242006\J575193.raw

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3 <110> APPLICANT: Hattori, Kunihiro
4     Kojima, Tetsuo
5     Miyazaki, Taro
6     Soeda, Tetsuhiro
8 <120> TITLE OF INVENTION: BISPECIFIC ANTIBODY SUBSTITUTING FOR FUNCTIONAL PROTEINS
10 <130> FILE REFERENCE: 14875-160US1
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/575,193
C--> 12 <141> CURRENT FILING DATE: 2006-04-07
12 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/014911
13 <151> PRIOR FILING DATE: 2004-10-08
15 <150> PRIOR APPLICATION NUMBER: PCT/JP03/13062
16 <151> PRIOR FILING DATE: 2003-10-10
18 <150> PRIOR APPLICATION NUMBER: PCT/JP03/13123
19 <151> PRIOR FILING DATE: 2003-10-14
21 <160> NUMBER OF SEQ ID NOS: 268
23 <170> SOFTWARE: PatentIn version 3.1
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 22
27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial
30 <220> FEATURE:
31 <223> OTHER INFORMATION: an artificially synthesized primer sequence
33 <400> SEQUENCE: 1
34 cagctatgaa atacctattg cc                                22
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 23
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial
42 <220> FEATURE:
43 <223> OTHER INFORMATION: an artificially synthesized primer sequence
45 <400> SEQUENCE: 2
46 cttttcataa tcaaaatcac cgg                                23
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 19
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial
54 <220> FEATURE:
55 <223> OTHER INFORMATION: an artificially synthesized primer sequence
57 <400> SEQUENCE: 3
58 attgcctacg gcagccgct                                    19
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 20
63 <212> TYPE: DNA

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64 <213> ORGANISM: Artificial
66 <220> FEATURE:
67 <223> OTHER INFORMATION: an artificially synthesized primer sequence
69 <400> SEQUENCE: 4
70 aaatcaccgg aaccagagcc 20
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 24
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial
78 <220> FEATURE:
79 <223> OTHER INFORMATION: an artificially synthesized primer sequence
81 <400> SEQUENCE: 5
82 ttactcgcgg cccagccggc catg 24
85 <210> SEQ ID NO: 6
86 <211> LENGTH: 28
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial
90 <220> FEATURE:
91 <223> OTHER INFORMATION: an artificially synthesized primer sequence
93 <400> SEQUENCE: 6
94 ggaattcggc ccccgaggcc cactcacg 28
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 1215
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
102 <400> SEQUENCE: 7
103 ggcctcgggg gccagctttc tggggcaggc caggcctgac cttggctttg gggcagggag 60
105 ggggctaagg tgaggcaggt ggcgccagcc aggtgcacac ccaatgccca tgagcccaga 120
107 cactggacgc tgaacctcgc ggacagttaa gaaccagggt gcctctgcgc cctgggcccc 180
109 gctctgtccc acaccgcggt cacatggcac cacctctctt gcagcttcca ccaaggggccc 240
111 atccgtcttc cccctggcgc cctgctccag gagcacctcc gagagcacag ccgccctggg 300
113 ctgcctggtc aaggactact tccccgaacc ggtgacgggtg tcgtggaact caggcgccct 360
115 gaccagcggc gtgcacacct tcccggtgtg cctacagtcc tcaggactct actccctcag 420
117 cagcgtgggtg accgtgccct ccagcagctt gggcacgaag acctacacct gcaacgtaga 480
119 tcacaagccc agcaacacca aggtggacaa gagagttgag tccaaatatg gtcccccatg 540
121 cccaccatgc ccagcacctg agttcctggg gggaccatca gtcttctgt tcccccaaa 600
123 acccaaggac actctcatga tctcccgac ccctgagggtc acgtgcgtgg tggtagacgt 660
125 gagccaggaa gaccccgagg tccagttcaa ctggtacgtg gatggcgtgg aggtgcataa 720
127 tgccaagaca aagccgcggg aggagcagtt caacagcacg taccgtgtgg tcagcgtcct 780
129 caccgtcctg caccaggact ggctgaacgg caaggagtac aagtgcagg tctccaacaa 840
131 aggcctcccc tcttccatcg agaaaacat ctccaaagcc aaagggcagc cccgagagcc 900
133 acaggtgtgc accctgcccc catcccagga ggagatgacc aagaaccagg tcagcctgtg 960
135 gtgcctggtc aaaggcttct accccagcga catcgccgtg gagggggaga gcaatgggca 1020
137 gccggagaac aactacaaga ccacgcctcc cgtgctggac tccgacggct ccttcttctt 1080
139 ctacagcagg ctaaccgtgg acaagagcag gtggcaggag gggaatgtct tctcatgtct 1140
141 cgtgatgcag gaggctctgc acaaccacta cacacagaag agcctctccc tgtctctggg 1200
143 taaatgagcg gccgc 1215
146 <210> SEQ ID NO: 8
147 <211> LENGTH: 684

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148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 8
152 ggcctcgggg gccgaattcc taaactctga gggggtcgga tgacgtggcc attctttgcc      60
154 taaagcattg agtttactgc aaggtcagaa aagcatgcaa agccctcaga atggctgcaa      120
156 agagctccaa caaaacaatt tagaacttta ttaaggaata gggggaagct aggaagaaac      180
158 tcaaaacatc aagattttta atacgcttct tgggtctcctt gctataatta tctgggataa      240
160 gcatgctgtt ttctgtctgt ccctaacatg ccctgtgatt atccgcaaac aacacaccca      300
162 agggcagaac tttgttactt aaacaccatc ctgtttgctt ctttcctcag gaactgtggc      360
164 tgcaccatct gtcttcatct tcccgcctatc tgatgagcag ttgaaatctg gaactgcctc      420
166 tgttgtgtgc ctgctgaata acttctatcc cagagaggcc aaagtacagt ggaagggtgga      480
168 taacgccttc caatcgggta actcccagga gagtgtcaca gagcaggaca gcaaggacag      540
170 cacctacagc ctcagcagca ccctgacgct gagcaaagca gactacgaga aacacaaaag      600
172 ctacgcctgc gaagtcaccc atcagggcct gagctcgccc gtcacaaaga gcttcaacag      660
174 gggagagtgt tagagggcgg ccgc                                     684
177 <210> SEQ ID NO: 9
178 <211> LENGTH: 1215
179 <212> TYPE: DNA
180 <213> ORGANISM: Homo sapiens
182 <400> SEQUENCE: 9
183 ggcctcgggg gcctcccagg ctctgggcag gcacaggcta ggtgccccta acccaggccc      60
185 tgcacacaaa ggggcagggtg ctgggctcag acctgccaa agccatatcc gggaggaccc      120
187 tgcccctgac ctaagcccac cccaaaggcc aaactctcca ctccctcagc tcggacacct      180
189 tctctcctcc cagattccag taactcccaa tcttctctct gcagcttcca ccaaggggccc      240
191 atccgtcttc cccctggcgc cctgctccag gagcacctcc gagagcacag ccgccctggg      300
193 ctgcctggtc aaggactact tccccgaacc ggtgacgggtg tcgtggaact caggcgccct      360
195 gaccagcggc gtgcacacct tcccggctgt cctacagtcc tcaggactct actccctcag      420
197 cagcgtgggt accgtgccct ccagcagctt gggcacgaag acctacacct gcaacgtaga      480
199 tcacaagccc agcaacacca aggtggacaa gagagttgag tccaaatatg gtcccccatg      540
201 cccaccatgc ccagcacctg agttcctggg gggaccatca gtcttctgt tccccccaaa      600
203 acccaaggac actctcatga tctcccggac ccctgagggtc acgtgcgtgg tgggtggacgt      660
205 gagccaggaa gaccccgagg tccagttcaa ctgggtacgtg gatggcgtgg aggtgcataa      720
207 tgccaagaca aagccgcggg aggagcagtt caacagcacg taccgtgtgg tcagcgtcct      780
209 caccgtcctg caccaggact ggctgaacgg caaggagtac aagtgcagg tctccaacaa      840
211 aggcctcccg tctccatcg agaaaacat ctccaaagcc aaagggcagc cccgagagcc      900
213 acaggtgtac accctgcccc catcccagtg cgagatgacc aagaaccagg tcagcctgtc      960
215 ctgcgcggtc aaaggcttct atcccagcga catcgccgtg gagtgggaga gcaatgggca      1020
217 gccggagaa aactacaaga ccacgcctcc cgtgctggac tccgacggct ctttcttct      1080
219 cgtgagcagg ctaaccgtgg acaagagcag gtggcaggag gggaatgtct tctcatgtct      1140
221 cgtgatgcat gaggctctgc acaaccacta cacacagaag agcctctccc tgtctctggg      1200
223 taaatgagcg gccgc                                     1215
226 <210> SEQ ID NO: 10
227 <211> LENGTH: 21
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial
231 <220> FEATURE:
232 <223> OTHER INFORMATION: an artificially synthesized primer sequence
234 <400> SEQUENCE: 10
235 cgcaaatggg cggtaggcgt g                                     21

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238 <210> SEQ ID NO: 11
239 <211> LENGTH: 18
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial
243 <220> FEATURE:
244 <223> OTHER INFORMATION: an artificially synthesized primer sequence
246 <400> SEQUENCE: 11
247 tagaaggcac agtcgagg                                     18
250 <210> SEQ ID NO: 12
251 <211> LENGTH: 24
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial
255 <220> FEATURE:
256 <223> OTHER INFORMATION: an artificially synthesized primer sequence
258 <400> SEQUENCE: 12
259 ctctgaatac tttcaacaag ttac                               24
262 <210> SEQ ID NO: 13
263 <211> LENGTH: 116
264 <212> TYPE: PRT
265 <213> ORGANISM: Mus musculus
267 <400> SEQUENCE: 13
269 Met Glu Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Thr
270 1          5          10          15
273 Gln Ser Leu Ser Leu Thr Cys Ser Val Thr Gly Tyr Ser Ile Thr Ser
274          20          25          30
277 Gly Tyr Tyr Trp Thr Trp Ile Arg Gln Phe Pro Gly Asn Asn Leu Glu
278          35          40          45
281 Trp Ile Gly Tyr Ile Ser Phe Asp Gly Thr Asn Asp Tyr Asn Pro Ser
282          50          55          60
285 Leu Lys Asn Arg Ile Ser Ile Thr Arg Asp Thr Ser Glu Asn Gln Phe
286 65          70          75          80
289 Phe Leu Lys Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr
290          85          90          95
293 Cys Ala Arg Gly Pro Pro Cys Thr Tyr Trp Gly Gln Gly Thr Leu Val
294          100          105          110
297 Thr Val Ser Ala
298          115
301 <210> SEQ ID NO: 14
302 <211> LENGTH: 6
303 <212> TYPE: PRT
304 <213> ORGANISM: Mus musculus
306 <400> SEQUENCE: 14
308 Ser Gly Tyr Tyr Trp Thr
309 1          5
312 <210> SEQ ID NO: 15
313 <211> LENGTH: 16
314 <212> TYPE: PRT
315 <213> ORGANISM: Mus musculus
317 <400> SEQUENCE: 15

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319 Tyr Ile Ser Phe Asp Gly Thr Asn Asp Tyr Asn Pro Ser Leu Lys Asn
320 1          5          10          15
323 <210> SEQ ID NO: 16
324 <211> LENGTH: 6
325 <212> TYPE: PRT
326 <213> ORGANISM: Mus musculus
328 <400> SEQUENCE: 16
330 Gly Pro Pro Cys Thr Tyr
331 1          5
334 <210> SEQ ID NO: 17
335 <211> LENGTH: 120
336 <212> TYPE: PRT
337 <213> ORGANISM: Mus musculus
339 <400> SEQUENCE: 17
341 Met Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Pro Gly
342 1          5          10          15
345 Ala Ser Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp
346          20          25          30
349 Asp Tyr Val His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp
350          35          40          45
353 Ile Gly Arg Ile Asp Pro Ala Asp Gly Lys Thr Lys Tyr Ala Pro Lys
354          50          55          60
357 Phe Gln Asp Lys Ala Thr Met Thr Ser Asp Thr Ser Ser Asn Thr Ala
358 65          70          75          80
361 Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr
362          85          90          95
365 Cys Val Arg Trp Arg Ile Tyr Tyr Gly Leu Met Asp Tyr Trp Gly Gln
366          100          105          110
369 Gly Thr Ser Val Thr Val Ser Ser
370          115          120
373 <210> SEQ ID NO: 18
374 <211> LENGTH: 5
375 <212> TYPE: PRT
376 <213> ORGANISM: Mus musculus
378 <400> SEQUENCE: 18
380 Asp Asp Tyr Val His
381 1          5
384 <210> SEQ ID NO: 19
385 <211> LENGTH: 17
386 <212> TYPE: PRT
387 <213> ORGANISM: Mus musculus
389 <400> SEQUENCE: 19
391 Arg Ile Asp Pro Ala Asp Gly Lys Thr Lys Tyr Ala Pro Lys Phe Gln
392 1          5          10          15
395 Asp
399 <210> SEQ ID NO: 20
400 <211> LENGTH: 10
401 <212> TYPE: PRT
402 <213> ORGANISM: Mus musculus

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 04/24/2006

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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,10,11,12

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/575,193

DATE: 04/24/2006

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Input Set : A:\14875-160US1.txt

Output Set: N:\CRF4\04242006\J575193.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:4184 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:221,Line#:4182
L:4211 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:223,Line#:4209
L:4238 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:225,Line#:4236
L:4265 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:227,Line#:4263
L:4292 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:229,Line#:4290
L:4319 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:231,Line#:4317
L:4346 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:233,Line#:4344
L:4373 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:235,Line#:4371
L:4400 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:237,Line#:4398
L:4427 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:239,Line#:4425
L:4462 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:241,Line#:4460
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L:4543 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:247,Line#:4541
L:4578 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:249,Line#:4576
L:4605 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:251,Line#:4603
L:4632 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:253,Line#:4630
L:4659 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:255,Line#:4657
L:4686 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:257,Line#:4684
L:4713 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:259,Line#:4711
L:4748 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:261,Line#:4746
L:4775 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:263,Line#:4773
L:4802 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:265,Line#:4800
L:4829 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:267,Line#:4827